Project Design Phase-II
Data Flow Diagram & User Stories

Date	23 October 2023
Team ID	Team-592538
Project Name	AUTOMATED PREDICTION MODEL FOR DIABETIC RETINOPATHY USING CNN
Maximum Marks	5 Marks

Data Flow :

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Import Libraries: The user initiates the process by importing necessary libraries and dependencies for the subsequent data analysis and modeling tasks.

Verify: The user verifies the integrity and quality of the dataset to ensure it is suitable for analysis.

Exploring the Dataset: User explores the dataset to gain insights, understand its characteristics, and identify potential patterns or issues.

Image Processing: In case the dataset includes images, the user applies image processing techniques to enhance and standardize the quality of images.

Data Extraction and Splitting: The user extracts relevant data features and splits the dataset into training and validation subsets, preparing it for model development.

Model Building: The user undertakes the task of designing and building a predictive model using the prepared dataset.

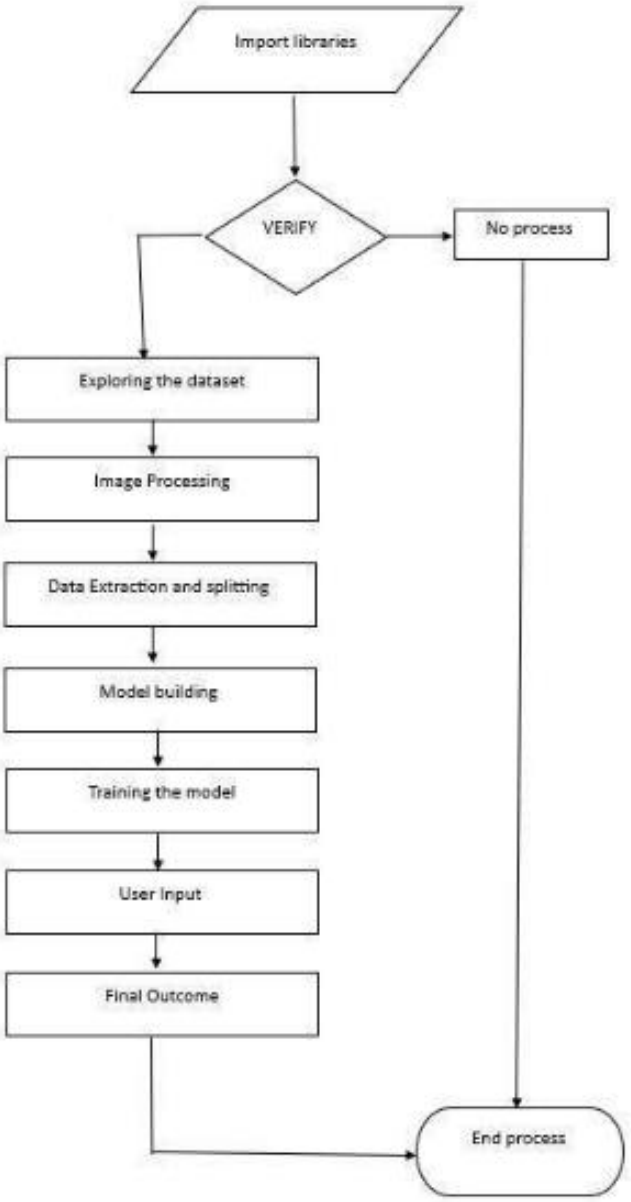
Training the Model: The user trains the model using the training dataset, allowing it to learn from the provided data.

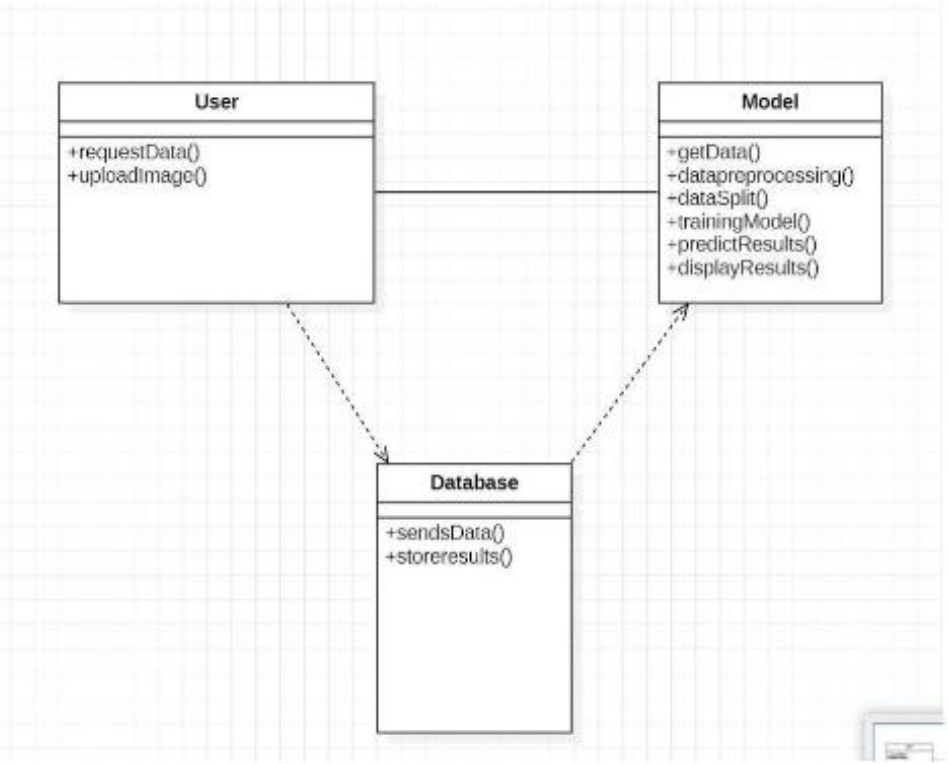
User Input: Users may provide input or configuration settings during the model-building process, such as choosing hyperparameters or specifying model architecture.

Final Outcome: After model training, the user assesses the final outcomes, which may include evaluation metrics and model performance.

End Process: The user concludes the data flow, marking the end of the entire process, which could lead to model deployment, further analysis, or any necessary actions based on the results obtained.

Data Flow Diagrams:





User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Healthcare Professional	Diabetic Retinopathy Prediction	US01	Upload Retinal Images	The user can upload retinal images to the system.	High	Sprint 1
Diabetic Patient	Diabetic Retinopathy Prediction	US02	View DR Predictions	The patient can view their DR predictions.	High	Sprint 1
Data Scientist	Data Access & Preparation	US03	Access Dataset	The data scientist can access the dataset.	Medium	Sprint 1
Hospital Administrator	Efficiency & Automation	US06	System Cost-Effectiveness	The system reduces healthcare staff workload.	High	Sprint 1